

Moult cards – basic form

Office Use: ☐ **N.Z. MOULT CARD**
PLEASE COMPLETE ALL SECTIONS OF CARD

Species _____
District _____
Locality _____

Date / / Observer

Band/ museum number Sex Age

CONDITION OF BIRD: (tick) Wild ☐ Captive ☐ Living ☐
Museum specimen ☐ Recently dead ☐ Long dead ☐

MOULT SUMMARY: (tick) In moult ☐ Not in moult ☐

WING: Score each Feather 0-5

0 = old feather remaining
1 = missing or new feather completely in pin
2 = New feather emerging and up to 1/3 grown
3 = between 1/3 and 2/3 grown
4 = from 2/3 to fully grown, but sheath still present
5 = fully grown with no sheath remaining

Tertials			Secondaries			Primaries			Outer wing		
9	8	7	6	5	4	3	2	1	1	2	3
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Inner Tertials (continue in Comments section if > 29 secondaries):

29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

TAIL: Left half of tail Score each feather 0 - 5 Right half of tail

COVERTS AND REST OF PLUMAGE: Score each region

Bastard wing	Uderwing coverts	Head
<input type="text"/>	<input type="text"/>	<input type="text"/>
Primary coverts	Uppertail coverts	Undertail coverts
<input type="text"/>	<input type="text"/>	<input type="text"/>
Greater coverts	Upperparts	Underparts
<input type="text"/>	<input type="text"/>	<input type="text"/>
Lesser and median coverts	Score: 0 = All old 3 = Middle 5 = All new 2 = Beginning 4 = Ending	
<input type="text"/>		

COMMENTS:

O.S.N.Z Moulting Recording Scheme - reference notes

0 1 1 2 2 3 3 4 4 5

1/3
2/3

OLD NEW

The scoring system for major feathers (wing and tail).
The dashed horizontal line represents one third and two thirds growth.
The numerical scoring system is:
0 = Old feather remaining
1 = Old feather missing or new feather completely in pin
2 = New feather just emerging from the sheath up to one third grown
3 = New feather between one and two thirds grown
4 = New feather more than two thirds grown and with remains of waxy sheath at base
5 = New feather fully developed with no trace of waxy sheath remaining at base

1. Scoring scheme for primaries, secondaries, tertials and tail feathers.

2. Topography of a passerine bird's wing. Passerines show variation in the presence/absence of the 10th (outer) primary. Non-passerines may have many more secondaries/tertials than the 6+3 typical of a passerine. The 'inner tertials' section of the card is to accommodate scores for these extra feathers in non-passerines, and the number may exceed the 29 allowed for by the boxes. If necessary, continue 'inner tertials' score in 'comments' box at bottom of card. Figures based on H.B. Ginn & D.S. Melville *Moult in Birds BTO Guide 19* - a recommended reference for those interested in moult study in New Zealand.

Forms and Enquiries to: Birds New Zealand. PO Box 834. Nelson 7040

Moult cards (active moult)

ANILLA 2024-2522		CONTROL <input type="checkbox"/> sí <input checked="" type="checkbox"/> no		ESPECIE		EDAD 6	SEXO	MUDA ACTIVA <input type="checkbox"/> sí <input checked="" type="checkbox"/> no		TIPO DE MUDA <input type="checkbox"/> VERANO <input type="checkbox"/> INVIERNO <input type="checkbox"/> TRANSICIÓN VERANO <input type="checkbox"/> TRANSICIÓN INVIERNO																																																																																																																																																												
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Scores:

0= old

>0= % full length

c= shed

p= pin (also % full length)

Monk parakeet > 2nd cycle

Body moult section:

columns= tracts

1st row: % growing

2nd row: % grown

3rd row: % retained

Moult cards (finished moult)

ANILLA 776226		CONTROL si <input type="checkbox"/> no <input checked="" type="checkbox"/>		ESPECIE PASROS		EDAD 5	SEXO 1	MUDA/ACTIVA si <input checked="" type="checkbox"/> no <input type="checkbox"/>		TIPO DE MUDA VERANO <input type="checkbox"/> INVERNO <input type="checkbox"/> PRINCIPIOS INVERNO <input type="checkbox"/> FINALES INVERNO <input type="checkbox"/>																																																																					
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Scores:
0= old
1= new

Rose-bellied bunting 2nd year

Moult cards – adapted for fernbirds

Species code	Species	Sex	Age	Ring number	Retrap no <input type="checkbox"/> yes <input type="checkbox"/>	Ringer
Day, month, year		Locality		Coordinates	Banding team	
% Feather growth stage: 0=old, 0.5=shed, % growth				Comments		
Moult progress: 0=old, 1=new OR growth scores 0 to 5						
<div> <div> Left wing <div>Alula</div> <div>Carpal covert</div> <div>Marginal coverts</div> <div>Median coverts</div> <div>Greater Coverts</div> <div>Primaries</div> <div>Tertials</div> <div>Tail feathers</div> </div> <div> Right wing <div>Alula</div> <div>Carpal covert</div> <div>Marginal coverts</div> <div>Median coverts</div> <div>Greater Coverts</div> <div>Primaries</div> <div>Tertials</div> <div>Tail feathers</div> </div> </div>						
<div> <div>Comments</div> <div>Moult of body feathers</div> </div>						
Bill length	Wing length	Tail length	Tarsus length	Iris colour	Tongue spots	Mass

Scores:

Feather growth
0 to 5 (fully grown)

Moult progress
(frequency analysis)

0= old
1= new

% feather growth
(moult sequence
within feather tracts)

Moult cards – frequency analysis

2023 Fernbird frequency moult card... • Saved to this PC

File Home Insert Page Layout Formulas Data Review View Automate Help

Clipboard Font Alignment Number Styles Cells Editing Analysis Sensitivity Add-ins

BA42 0

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	
1	locality	band	month	YEAR-date	sp	moult stage	Nzage	URag	sex	pattern	T1	T2	T3	S6	S5	S4	S3	S2	S1	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	GC10	GC9	GC8	GC7	GC6	GC5	GC4	GC3	GC2	GC1	CC	PC1	PC2	PC3	
2	Nelson	CP17312	1	2023-01-02	BOWPUN	postbreeding	2	5	2		1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	
3	Nelson	CP17564	2	2022-02-21	BOWPUN	postjuvenile	1	3	1		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	Nelson	CP17578	3	2022-03-24	BOWPUN	postjuvenile	1	3	U		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0
5	Nelson	CP17569	3	2022-03-09	BOWPUN	postjuvenile	1	3	U		1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0
6	Nelson	CP17569	3	2022-03-15	BOWPUN	postjuvenile	1	3	U		1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	
7	Nelson	CP17572	3	2022-03-15	BOWPUN	postjuvenile	1	3	U		1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	
8	Nelson	CP17578	3	2022-03-24	BOWPUN	postjuvenile	1	3	U		1	1	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	
9	Nelson	CP17561	3	2022-03-13	BOWPUN	postjuvenile	1	3	U		1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	0	0	
10	Nelson	CP17561	3	2022-03-18	BOWPUN	postjuvenile	1	3	U		1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	0	0	
11	Nelson	CP17561	4	2022-04-30	BOWPUN	postjuvenile	1	3	U		1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	
12	Nelson	CP17564	4	2022-04-30	BOWPUN	postjuvenile	1	3	U		1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	
13	Nelson	CP17586	5	2022-05-07	BOWPUN	postjuvenile	1	3	2		1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0		
14	Nelson	CP17590	7	2022-07-10	BOWPUN	postjuvenile	1	3	1		1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	
15	Nelson	CP17561	7	2022-07-23	BOWPUN	postjuvenile	1	3	U		1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0		
16	Marahau	CP17594	10	2022-10-02	BOWPUN	postbreeding	2	5	1		1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0		
17	Nelson	CP17598	11	2022-11-06	BOWPUN	postbreeding	2	5	1		1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0		
18																																												
19																																												
20	Paremata	CP17343	4	2023-04-30	BOWPUN	postjuvenile	1	3	2	E	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	
21	Paremata	CP17343	5	2023-05-21	BOWPUN	postjuvenile	1	3	2	E	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	
22	Nelson	CP17320	5	2023-05-16	BOWPUN	postjuvenile	1	3	2	A	1	1	1	1	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	
23	Nelson	CP17555	5	2023-05-16	BOWPUN	postbreeding	2	5	1	C	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
24	Nelson	CP17325	5	2023-05-15	BOWPUN	postjuvenile	1	3	1	A	1	1	1	1	1	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1		
25	Nelson	CP17330	5	2023-05-13	BOWPUN	postjuvenile	1	3	2	A	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
26	Nelson	CP17330	5	2023-05-13	BOWPUN	postjuvenile	1	3	2	A	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
27	Nelson	CP17330	5	2023-05-13	BOWPUN	postjuvenile	1	3	2	A	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
28	Nelson	CP17330	5	2023-05-13	BOWPUN	postjuvenile	1	3	2	A	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
29	Nelson	CP17330	5	2023-05-13	BOWPUN	postjuvenile	1	3	2	A	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
30	Nelson	CP17330	5	2023-05-13	BOWPUN	postjuvenile	1	3	2	A	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
31	Nelson	CP17330	5	2023-05-13	BOWPUN	postjuvenile	1	3	2	A	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
32	Nelson	CP17330	5	2023-05-13	BOWPUN	postjuvenile	1	3	2	A	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
33	Nelson	CP17330	5	2023-05-13	BOWPUN	postjuvenile	1	3	2	A	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
34	Nelson	CP17330	5	2023-05-13	BOWPUN	postjuvenile	1	3	2	A	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
35	Nelson	CP17330	5	2023-05-13	BOWPUN	postjuvenile	1	3	2	A	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
36	Nelson	CP17330	5	2023-05-13	BOWPUN	postjuvenile	1	3	2	A	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
37	Nelson	CP17330	5	2023-05-13	BOWPUN	postjuvenile	1	3	2	A	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
38	Nelson	CP17330	5	2023-05-13	BOWPUN	postjuvenile	1	3	2	A	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
39	Nelson	CP17330	5	2023-05-13	BOWPUN	postjuvenile	1	3	2	A	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
40	Nelson	CP17330	5	2023-05-13	BOWPUN	postjuvenile	1	3	2	A	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
41	Nelson	CP17330	5	2023-05-13	BOWPUN	postjuvenile	1	3	2	A	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
42	Nelson	CP17330	5	2023-05-13	BOWPUN	postjuvenile	1	3	2	A	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
43	Nelson	CP17330	5	2023-05-13	BOWPUN	postjuvenile	1	3	2	A	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
44	Nelson	CP17330																																										

Moult cards – data for R Moult

	A	B	C	D	E	F	G	H
1	Band	Date	Day	Primaries	Secondaries	Date	PScore	Sscore
2	CP17553	2/01/2022 0:00	22002	0,0,0,0,0,0,0,0		2/01/2022	0	
3	CP17554	2/01/2022 0:00	22002	0,0,0,0,0,0,0,0		2/01/2022	0	
4	CP17508	4/01/2022 0:00	22004	0,0,0,0,0,0,0,0		4/01/2022	0	
5	CP17555	8/01/2022 19:15	22009	3,3,0,0,0,0,0,0		8/01/2022	6	
6	CP17556	8/01/2022 21:20	22009	0,0,0,0,0,0,0,0		8/01/2022	0	
7	CP17501	15/01/2022 0:00	22015	3,1,0,0,0,0,0,0		15/01/2022	4	
8	CP17502	15/01/2022 0:00	22015	2,0,0,0,0,0,0,0		15/01/2022	2	
9	CP17557	15/01/2022 0:00	22015	0,0,0,0,0,0,0,0		15/01/2022	0	
10	CP17510	22/01/2022 0:00	22022	0,0,0,0,0,0,0,0		22/01/2022	0	
11	CP17511	22/01/2022 0:00	22022	0,0,0,0,0,0,0,0		22/01/2022	0	
12	CP17513	22/01/2022 0:00	22022	0,0,0,0,0,0,0,0		22/01/2022	0	
13	CP17562	22/01/2022 0:00	22022	0,0,0,0,0,0,0,0		22/01/2022	0	
14	CP17563	21/02/2022 0:00	22052	5,5,2,2,0,0,0,0		21/02/2022	14	
15	CP17565	25/02/2022 0:00	22056	5,5,5,3,1,0,0,0		25/02/2022	19	
16	CP17555	25/02/2022 0:00	22057	5,5,5,5,3,1,0,0		26/02/2022	24	
17	CP17567	26/02/2022 0:00	22057	5,5,5,3,1,0,0,0		26/02/2022	19	
18	CP17553	4/03/2022 0:00	22063	4,5,4,2,0,0,0,0		4/03/2022	15	
19	CP17568	6/03/2022 0:00	22065	5,4,4,3,0,0,0,0		6/03/2022	16	
20	CP17570	9/03/2022 0:00	22068	5,5,5,5,5,3,0,0	1,0,0,0,0,0	9/03/2022	28	1
21	CP17502	13/03/2022 0:00	22072	5,5,4,3,0,0,0,0		13/03/2022	17	
22	CP17571	13/03/2022 0:00	22072	5,5,3,3,0,0,0,0		13/03/2022	16	
23	CP17573	18/03/2022 0:00	22077	5,5,5,5,5,2,1,0	4,1,0,0,0,0	18/03/2022	28	5
24	CP17513	20/03/2022 0:00	22079	5,4,5,5,4,3,1,0	5,3,0,0,0,0	20/03/2022	27	8
25	CP17574	20/03/2022 0:00	22079	5,5,5,4,1,0,0,0		20/03/2022	20	
26	CP17575	20/03/2022 0:00	22079	5,5,3,4,2,1,0,0		20/03/2022	20	

PScore=sum of
primaries

Moult index=Pscore/45